

**SOLVAY**

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WJC East - Room 6428

Attn: Section 8(e)

U.S. Environmental Protection Agency

1201 Constitution Avenue, NW

Washington, DC 20004-3302

**Re: Supplement #4 to May 16, 2014 TSCA 8(e) Submission: Perfluorocarbons
Detected in Water Supply Wells and Groundwater Monitoring Samples**

Dear Sir/Madam:

Solvay Specialty Polymers USA, LLC (Solvay) is making this submission to the U.S. Environmental Protection Agency (EPA) pursuant to the Toxic Substances Control Act (TSCA) (15 U.S.C. § 2601 *et seq.*) Section 8(e), as a supplement to a previous submission dated May 16, 2014, and earlier supplements.

With regard to perfluorononanoic acid (PFNA, CASRN 375-95-1) detected in water supply wells and groundwater, Solvay's previous submissions focused on a drinking water advisory issued by the New Jersey Department of Environmental Protection (NJDEP) and the New Jersey Department of Health (NJDOH) related to findings of PFNA in the public water system of Paulsboro, New Jersey, at levels on the order of 100 parts per trillion (ppt) to 150 ppt in one particular water supply well.¹ That limited advisory was specifically targeted to infants up to the age of one year, which NJ officials issued "out of an abundance of caution." Although Solvay did not believe sufficient scientific basis existed to establish a concern level for PFNA at 100 ppt or 150 ppt, Solvay viewed the advisory as a potentially relevant level for TSCA 8(e) reporting purposes in the absence of any applicable state or federal drinking water regulations for PFNA.

Solvay made its previous submissions despite the fact that Solvay ceased use of PFNA in 2010 and believes it no longer has any obligation under TSCA section 8(e) for PFNA.

¹ See NJDOH, "Perfluorinated Chemicals in the Paulsboro Public Drinking Water System," available at: http://nj.gov/health/eohs/pfc_in_drinkingwater.shtml.

On November 25, 2015, NJDEP promulgated an Interim Specific Groundwater Quality Criterion (ISGWQC) for PFNA of 10 ppt.² This follows a draft ISGWQC issued by NJDEP on March 14, 2014, for PFNA of 20 ppt, on which Solvay submitted extensive comments. NJDEP's new 10 ppt groundwater standard for PFNA is unprecedented worldwide and is not, in Solvay's view, reasonably supported by existing scientific literature.³ Furthermore, NJDEP reaches the 10 ppt level for groundwater based on a significant number of deviations from generally accepted scientific norms as evidenced by the recent peer-reviewed ATSDR draft report regarding the weight of data and significance of various exposure sources.⁴ Moreover, Solvay has initiated a legal appeal of the new standard in light of numerous legal infirmities associated with NJDEP's action and the standard. Nevertheless, in light of this new State standard and EPA's 8(e) guidance that "information about contamination found at or above benchmarks that trigger regulatory requirements...is to be considered for possible reporting, based on potential exposure to humans and/or non-human organisms and other relevant factors,"⁵ Solvay is making this supplemental submission.

As noted in previous submissions, Solvay has conducted groundwater monitoring and has sampled private and municipal drinking water wells for certain PFCs in a broad geographic area in which Solvay's West Deptford, New Jersey, facility is located to determine if, and to what extent, PFCs may exist in groundwater and water supply wells. Solvay is now reporting PFNA values from this testing above 10 ppt, which are detailed in the enclosed table. Consistent with Solvay's coordinated approach with NJDEP and EPA Region 2, specific street addresses are not being provided in this public document to protect the privacy of local residents. No determination has been made that the PFNA detected at any of these locations originated at the Solvay facility.

Although other PFCs have been and are being analyzed, detected and subsequently reported to both NJDEP and EPA in connection with Solvay's ongoing sampling efforts, the State of NJ currently has no "benchmarks that trigger regulatory requirements" for PFOA, PFOS or other PFCs. For context, however, Solvay has obtained no new data for other PFCs that exceed the relevant EPA Office of Water Provisional Health Advisory (PHA) of 200 ppt for PFOS and 400 ppt for PFOA, since Supplement #1 on July 11, 2014. PFOA levels above

² See Ground Water Quality Standards N.J.A.C. 7:9C: Interim Ground Water Quality Criteria Table, available at: http://www.nj.gov/dep/wms/bears/gwqs_interim_criteria_table.htm.

³ For example, the U.S. Department of Health and Human Services, Agency for Toxic Substances and Disease Registry (ATSDR) released a revised draft toxicological profile for perfluoroalkyl compounds (PFCs) that found that there are insufficient data to derive a minimum risk level (MRL) for PFNA. See ATSDR, "Draft Toxicological Profile for Perfluoroalkyls," available at: <http://www.atsdr.cdc.gov/toxprofiles/tp200.pdf>.

⁴ See items 3, 4, 5 and 6 of the attached report: *Toxicology Study Reviews of Perfluoroalkyl Compounds (PFCs) prepared for Solvay by Integral Consulting – Key Differences Between ATSDR and NJDEP – September 2015 (Revised)*.

⁵ TSCA Section 8(e); *Notification of Substantial Risk; Policy Clarification and Reporting Guidance*, 68 Fed. Reg. 33,129, 33,138 (June 3, 2003).

NJDEP's preliminary health based guidance for drinking water of 40 ppt have been found and have been noted in prior Supplements to the Section 8(e) notice.

Although information on the environmental presence of chemical substances at or above regulatory thresholds is to be considered for potential reporting, we also note that EPA's guidance limits such reporting to "widespread and previously unsuspected distribution" in the environment when there is known significant exposure to humans or there is a substantial likelihood that such exposure will occur.⁶ In May of this year, NJDEP developed a map of the area where PFNA contamination might be suspected based on NJDEP's analysis, which Solvay neither adopts nor accepts. As noted above, no determination has been made that the PFNA detected at any location within this area originated at the Solvay facility. NJDEP's map is enclosed with this submission. In light of this map and the confirming values reported in this submission, NJDEP apparently would not find it unexpected to identify additional PFNA environmental sampling and analytical results above 10 ppt within the mapped area.

On a prospective basis, Solvay's position is that the discovery of specific additional sites within the mapped area that exceed 10 ppt of PFNA would not constitute new evidence of substantial risk as to which the Administrator was not adequately informed and, therefore, further reporting of such findings, even on a voluntary basis, under section 8(e) would be inappropriate. Similarly, it is apparent from the original and earlier Supplements to this section 8(e) notice that PFOA exists above NJDEP's preliminary health based guidance for drinking water at 40 ppt in some of the samples. Unless PFCs are found as part of Solvay's PFNA monitoring efforts above applicable EPA PHAs, Solvay considers such levels to also be not unexpected and, therefore, not appropriate for further reporting under Section 8(e). Thus, no new data for non-PFNA PFCs are included with this submission

Nothing in this letter is considered confidential business information. Consistent with, and for the reasons stated in Solvay's May 16, 2014, letter and subsequent submissions, this supplemental information is being voluntarily submitted as a precautionary measure and because we believe EPA's TSCA 8(e) personnel would wish to be aware of it. Actions taken by Solvay, including the submission of this report, should not be taken to mean that Solvay recognizes or admits there is any health issue with respect to the identified PFCs at the detected levels or that Solvay is in any way responsible for these substances if they are found; other sources have contributed to ambient PFC levels in the environment. Moreover, the pattern of the PFC findings described in this and previous submissions indicate that other sources exist.

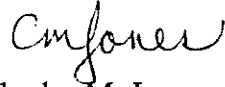
⁶ 68 Fed. Reg. at 33,138.

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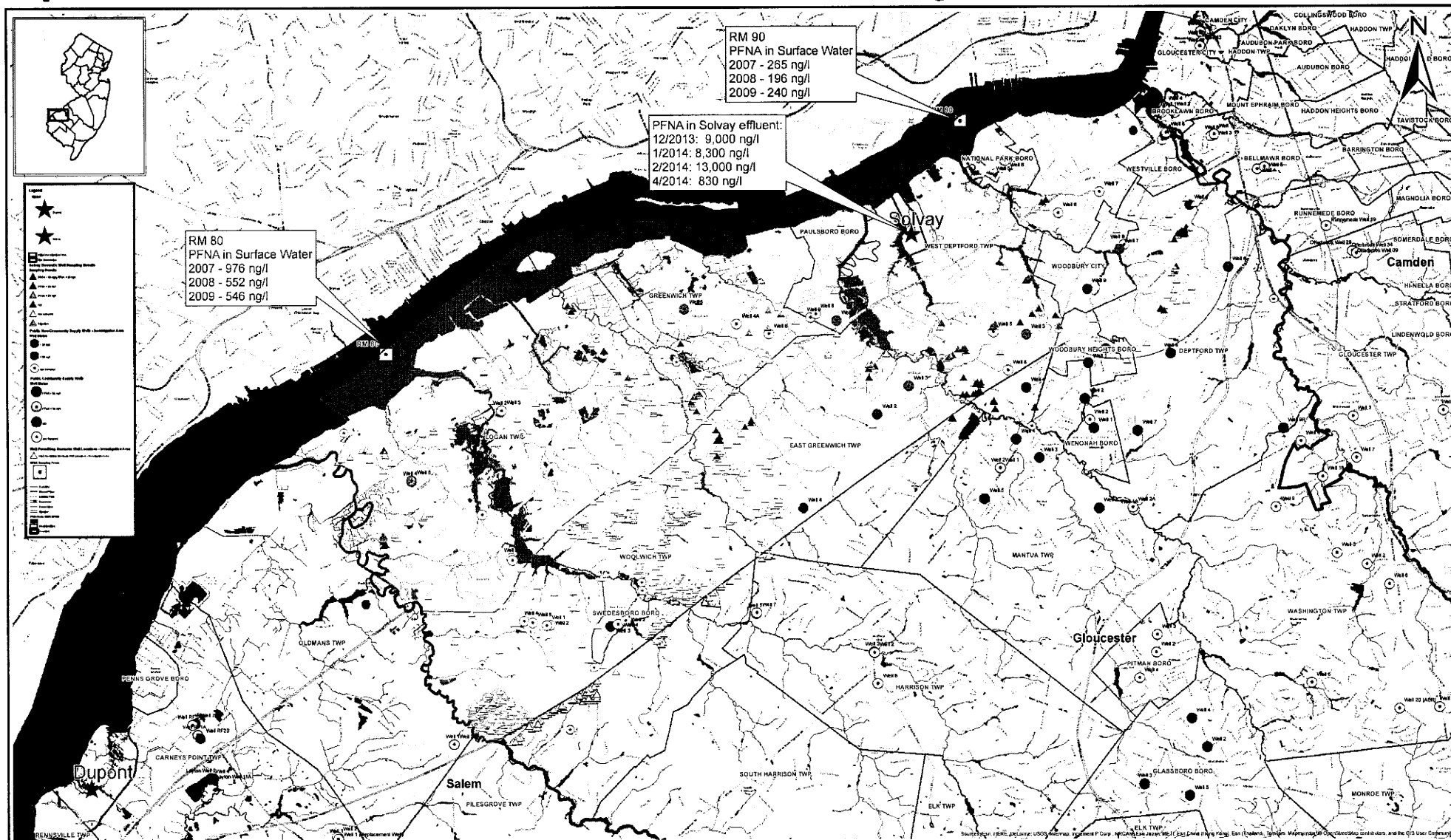
If you have any questions or require additional information regarding this submission, please do not hesitate to contact me.

Sincerely,



Charles M. Jones
West Deptford Site Manager
Solvay Specialty Polymers USA, LLC

Attachments: May 28, 2015, NJDEP GIS map depicting PFNA detections in wells
Toxicology Study Reviews of Perfluoroalkyl Compounds (PFCs)
– Key Differences Between ATSDR and NJDEP – September 2015 (Revised)
Tables of PFNA findings above 10 ppt (Tables 1 & 2)
Map of PFNA findings above 10 ppt



Toxicology Study Reviews of Perfluoroalkyl Compounds (PFCs) – Key Differences Between ATSDR and NJDEP – September 2015 (Revised)

On September 2, 2015, the U.S. Department of Health and Human Services, Agency for Toxic Substances and Disease Registry (ATSDR) released a revised draft toxicology review document, called a toxicological profile, for perfluoroalkyl compounds (PFCs). This federal agency's updated profile represents the most up-to-date toxicology review available for PFCs by the federal government. ATSDR reaches scientific conclusions on the existing toxicology data for PFCs, including perfluorononanoic acid (PFNA), that are materially different than key conclusions reached by the New Jersey Department of Environmental Protection (NJDEP) as to PFNA. These differences are particularly notable given ATSDR's previous receipt and consideration of extensive written comments from NJDEP's Office of Science and Department of Health, including a number of comments on which NJDEP relies to this day in proposing new PFNA standards. The updated August 2015 draft ATSDR profile has undergone Federal review and has been peer-reviewed by an expert nongovernmental panel. The final public comment period ends December 1, 2015.

Key differences between the two agency reviews are highlighted in the table below.

Topic		U.S. DHHS ATSDR	NJDEP
1	PFNA Toxicity	Existing data are insufficient to derive any toxicity value for PFNA (p.32)	Existing data are sufficient to derive a chronic toxicity value for PFNA
2	Chronic Toxicity	Existing data are insufficient to derive chronic toxicity values for any PFC (p.320)	Existing data are sufficient to derive a chronic toxicity value for PFNA
3	Relevance of Rodent Data	For all PFCs, rodent data are not appropriate and would be overly conservative for use in deriving human toxicity standards (pp. 24-25, 32)	Rodent data are appropriate to use to derive human standards
4	Epidemiological Studies	Human data are insufficient for derivation of toxicity values for all PFCs due to inconsistent and equivocal results, weak statistical associations, and potential confounding (p. 24)	Human data provide a supporting line of evidence for toxicity evaluation
5	Relative Source Contribution	Drinking water ingestion is the predominant exposure route for PFCs for communities near fluorochemical facilities (p.356)	Drinking water ingestion contributes only 50% to the total exposure to PFNA
6	PFNA Sources	Consistent with comments from NJDEP in 2009, PFNA and other PFCs may occur in the environment as a result of degradation of chemicals in fire-fighting foams (e.g., 8:2 fluorotelomer alcohol) (pp. 312, 361)	Currently, fire fighting foams are not being considered a relevant source of PFNA in the environment
7	Drinking Water Equivalent	Proposed intermediate MRLs translate into drinking water advisories of 350 ppt for PFOA and 525 ppt for PFOS; there are insufficient data to develop an MRL for PFNA	Proposes PFNA groundwater and drinking water standards at 10 ppt and 13 ppt, respectively

Sources:

ATSDR 2015. Draft Toxicological Profile for Perfluoroalkyls. August. <http://www.atsdr.cdc.gov/toxprofiles/tp200.pdf>

NJDEP 2015. Revised Draft Interim Specific Groundwater Quality Criterion for PFNA. April. <http://nj.gov/dep/dsr/pfna/index-April2015.htm>

Notes: MRL = minimum risk level; ppt = parts per trillion

Table 1. Summary of Sample Results for PFNA between 0.01 and 0.100 parts per billion (ppb) or micrograms per liter (µg/L)

Study Investigation	Study	Location ID	Sample Matrix	Sample Type	Sample ID	Field Duplicate	Upper Depth	Lower Depth	Units	PFNA	Flag	Count of Unique Locations
Monitoring Wells	Onsite/Offsite Sampling	MW-10X	Groundwater		GW0011_20140312				µg/L	0.015 U		1
Monitoring Wells	Onsite/Offsite Sampling	MW-5X	Groundwater		GW0023_20140312				µg/L	0.016 U		2
Monitoring Wells	Onsite/Offsite Sampling	PZ-3D	Groundwater		GW0004_20140418				µg/L	0.018 U		3
Municipal Water Supply	PWS Sampling	Ambulance Bldg Utility Sink	Drinking Water	Drinking Water	GW0080_20140325				µg/L	0.065		4
Municipal Water Supply	PWS Sampling	Ambulance Bldg Utility Sink	Drinking Water	Drinking Water	GW0123_20140424				µg/L	0.017		
Municipal Water Supply	PWS Sampling	Ambulance Bldg Utility Sink	Drinking Water	Drinking Water	GW0180_20141009				µg/L	0.016		
Municipal Water Supply	PWS Sampling	EG-PWS-3	Drinking Water	Treated Water	GW0028				µg/L	0.024		5
Municipal Water Supply	PWS Sampling	EG-PWS-3	Drinking Water	Treated Water	GW0029				µg/L	0.023		
Municipal Water Supply	PWS Sampling	EG-PWS-3	Drinking Water	Raw Water	GW0030				µg/L	0.021		
Municipal Water Supply	PWS Sampling	EG-PWS-3	Drinking Water	Raw Water	GW0031				µg/L	0.022		
Municipal Water Supply	PWS Sampling	EG-PWS-3	Drinking Water	Raw Water	GW0107_20140424				µg/L	0.035		
Municipal Water Supply	PWS Sampling	EG-PWS-3	Drinking Water	Raw Water	GW0109_20140424	X			µg/L	0.035		
Municipal Water Supply	PWS Sampling	EG-PWS-3	Groundwater	Raw Water	GW0168_20140709	X			µg/L	0.035		
Municipal Water Supply	PWS Sampling	EG-PWS-3	Groundwater	Raw Water	GW0169_20140709				µg/L	0.035		
Municipal Water Supply	PWS Sampling	EG-PWS-3	Groundwater	Raw Water	GW0176_20141002				µg/L	0.041		
Municipal Water Supply	PWS Sampling	EG-PWS-3	Groundwater	Raw Water	GW0178_20141002	X			µg/L	0.036		
Municipal Water Supply	PWS Sampling	FireHydrant - 1000 Broad St	Drinking Water	Drinking Water	GW0081_20140325				µg/L	0.018		6
Municipal Water Supply	PWS Sampling	FireHydrant - 1000 Broad St	Drinking Water	Drinking Water	GW0082_20140325	X			µg/L	0.024		
Municipal Water Supply	PWS Sampling	FireHydrant - 1000 Broad St	Drinking Water	Drinking Water	GW0124_20140424				µg/L	0.015		
Municipal Water Supply	PWS Sampling	GR-Lake Park	Drinking Water	Drinking Water	GW0119_20140424				µg/L	0.053		7
Municipal Water Supply	PWS Sampling	GR-Lake Park	Drinking Water	Drinking Water	GW0120_20140424	X			µg/L	0.051		
Municipal Water Supply	PWS Sampling	GR-LL Fields	Drinking Water	Drinking Water	GW0121_20140424				µg/L	0.012		8
Municipal Water Supply	PWS Sampling	GR-PWS-4A/6	Drinking Water	Treated Water	GW0060_20140206				µg/L	0.012		9
Municipal Water Supply	PWS Sampling	GR-PWS-4A/6	Drinking Water	Treated Water	GW0115_20140424				µg/L	0.012		
Municipal Water Supply	PWS Sampling	GR-PWS-4A/6	Groundwater	Treated Water	GW0172_20140709				µg/L	0.012		
Municipal Water Supply	PWS Sampling	GR-PWS-4A/6	Groundwater	Treated Water	GW0174_20140709	X			µg/L	0.011		
Municipal Water Supply	PWS Sampling	GR-PWS-5	Drinking Water	Treated Water	GW0065_20140206				µg/L	0.024		10
Municipal Water Supply	PWS Sampling	GR-PWS-5	Drinking Water	Treated Water	GW0066_20140206	X			µg/L	0.023		
Municipal Water Supply	PWS Sampling	GR-PWS-5	Drinking Water	Raw Water	GW0067_20140206				µg/L	0.022		
Municipal Water Supply	PWS Sampling	GR-PWS-5	Drinking Water	Treated Water	GW0117_20140424				µg/L	0.031		
Municipal Water Supply	PWS Sampling	GR-PWS-5	Drinking Water	Treated Water	GW0118_20140424	X			µg/L	0.032		
Municipal Water Supply	PWS Sampling	GR-PWS-5	Drinking Water	Raw Water	GW0116_20140424				µg/L	0.026		
Municipal Water Supply	PWS Sampling	GR-PWS-5	Groundwater	Raw Water	GW0173_20140709				µg/L	0.023		
Municipal Water Supply	PWS Sampling	GR-PWS-6	Drinking Water	Raw Water	GW0064_20140206				µg/L	0.012		11
Municipal Water Supply	PWS Sampling	GR-PWS-6	Drinking Water	Raw Water	GW0114_20140424				µg/L	0.013		
Municipal Water Supply	PWS Sampling	Jessup tank-hydrant	Drinking Water	Drinking Water	GW0056_20140123				µg/L	0.012		12
Municipal Water Supply	PWS Sampling	Jessup tank-hydrant	Groundwater	Raw Water	GW0056				µg/L	0.017 U		
Municipal Water Supply	PWS Sampling	Jessup tank-hydrant	Groundwater	Raw Water	GW0057				µg/L	0.017 U		
Municipal Water Supply	PWS Sampling	NP-Borough Hall Tap	Drinking Water	Drinking Water	GW0035				µg/L	0.014 J+		13
Municipal Water Supply	PWS Sampling	NP-Borough Hall Tap	Drinking Water	Drinking Water	GW0036				µg/L	0.014 J+		
Municipal Water Supply	PWS Sampling	NP-PWS-5	Drinking Water	Treated Water	GW0037				µg/L	0.014 J+		14
Municipal Water Supply	PWS Sampling	NP-PWS-5	Drinking Water	Treated Water	GW0038				µg/L	0.015 J+		
Municipal Water Supply	PWS Sampling	NP-PWS-5	Drinking Water	Raw Water	GW0039				µg/L	0.013 J+		
Municipal Water Supply	PWS Sampling	NP-PWS-6	Drinking Water	Raw Water	GW0040				µg/L	0.011 J+		15
Municipal Water Supply	PWS Sampling	NP-PWS-6	Drinking Water	Treated Water	GW0152_20140508				µg/L	0.012		
Municipal Water Supply	PWS Sampling	NP-PWS-6	Drinking Water	Treated Water	GW0153_20140508	X			µg/L	0.011		
Municipal Water Supply	PWS Sampling	NP-PWS-6	Drinking Water	Raw Water	GW0151_20140508				µg/L	0.011		
Municipal Water Supply	PWS Sampling	NP-PWS-6	Drinking Water	Treated Water	GW0190_20140724	X			µg/L	0.010		
Municipal Water Supply	PWS Sampling	NP-PWS-6	Drinking Water	Treated Water	GW0185_20141009				µg/L	0.011		
Municipal Water Supply	PWS Sampling	NP-PWS-6	Drinking Water	Treated Water	GW0186_20141009	X			µg/L	0.012		
Municipal Water Supply	PWS Sampling	PB - City Hall sink tap	Drinking Water	Drinking Water	GW0103_20140410				µg/L	0.093		16

Table 1. Summary of Sample Results for PFNA between 0.01 and 0.100 parts per billion (ppb) or micrograms per liter (µg/L)

Study Investigation	Study	Location ID	Sample Matrix	Sample Type	Sample ID	Field Duplicate	Upper Depth	Lower Depth	Units	PFNA	Flag	Count of Unique Locations
Municipal Water Supply	PWS Sampling	PB - City Hall sink tap	DrinkingWater	Drinking Water	GW0165_20140708				µg/L	0.015		17
Municipal Water Supply	PWS Sampling	PB - City Hall sink tap	DrinkingWater	Drinking Water	GW0171_20140925				µg/L	0.016		
Municipal Water Supply	PWS Sampling	PB - Port break area sink	DrinkingWater	Drinking Water	GW0104_20140410				µg/L	0.064		
Municipal Water Supply	PWS Sampling	PB - Port break area sink	DrinkingWater	Drinking Water	GW0166_20140708				µg/L	0.016		
Municipal Water Supply	PB-GAC-ACT	PB-PWS-7	MidTreatmentWater	PostGAC	F600Sample45_150214				µg/L	0.012		18
Municipal Water Supply	PB-GAC-ACT	PB-PWS-7	MidTreatmentWater	PostGAC	F600Sample50_150215				µg/L	0.018		
Municipal Water Supply	PB-GAC-ACT	PB-PWS-7	MidTreatmentWater	PostGAC	F600Sample58_150217				µg/L	0.026		
Municipal Water Supply	PB-GAC-ACT	PB-PWS-7	MidTreatmentWater	PostGAC	F600Sample70_150220				µg/L	0.041		
Municipal Water Supply	PB-GAC-ACT	PB-PWS-7	MidTreatmentWater	PostGAC	F600Sample81_150223				µg/L	0.047		19
Municipal Water Supply	PWS Sampling	PB-PWS-7	DrinkingWater	Raw Water	GW0003				µg/L	0.092		
Municipal Water Supply	PWS Sampling	PB-PWS-7	DrinkingWater	Raw Water	GW0004				µg/L	0.088		
Municipal Water Supply	PWS Sampling	PB-PWS-7	DrinkingWater	Treated Water	GW0005				µg/L	0.096		
Municipal Water Supply	PWS Sampling	PB-PWS-7	DrinkingWater	Raw Water	GW0099_20140410				µg/L	0.095		
Municipal Water Supply	PWS Sampling	PB-PWS-7	DrinkingWater	Raw Water	GW0100_20140410				µg/L	0.080		
Municipal Water Supply	PWS Sampling	PB-PWS-7	DrinkingWater	Treated Water	GW0101_20140410				µg/L	0.100		
Municipal Water Supply	PWS Sampling	PB-PWS-7	DrinkingWater	MidTreatment Water	GW0102_20140410				µg/L	0.100		
Municipal Water Supply	Paulsboro6Month	PB-PWS-8	Groundwater	Raw Water	GW0201_20141216				µg/L	0.014 J		
Municipal Water Supply	Paulsboro6Month	PB-PWS-8	DrinkingWater	Treated Water	GW0202_20141216				µg/L	0.015 J		
Municipal Water Supply	Paulsboro6Month	PB-PWS-8	Groundwater	Raw Water	GW0205_20150114				µg/L	0.017		
Municipal Water Supply	Paulsboro6Month	PB-PWS-8	DrinkingWater	Treated Water	GW0206_20150114				µg/L	0.018		
Municipal Water Supply	Paulsboro6Month	PB-PWS-8	DrinkingWater	Treated Water	GW0207_20150114	X			µg/L	0.017		
Municipal Water Supply	Paulsboro6Month	PB-PWS-8	Groundwater	Raw Water	GW0211_20150218				µg/L	0.014		
Municipal Water Supply	Paulsboro6Month	PB-PWS-8	DrinkingWater	Treated Water	GW0212_20150218				µg/L	0.017		
Municipal Water Supply	Paulsboro6Month	PB-PWS-8	DrinkingWater	Treated Water	GW0222_20150527				µg/L	0.016		
Municipal Water Supply	Paulsboro6Month	PB-PWS-8	Groundwater	Raw Water	GW0221_20150527				µg/L	0.014		
Municipal Water Supply	Paulsboro6Month	PB-PWS-8	Groundwater	Raw Water	GW0225_20150527	X			µg/L	0.016		
Municipal Water Supply	PWS Sampling	PB-PWS-8	DrinkingWater	Raw Water	GW0001				µg/L	0.015		
Municipal Water Supply	PWS Sampling	PB-PWS-8	DrinkingWater	Raw Water	GW0096_20140410				µg/L	0.013		
Municipal Water Supply	PWS Sampling	PB-PWS-8	DrinkingWater	Treated Water	GW0098_20140410				µg/L	0.014		
Municipal Water Supply	PWS Sampling	PB-PWS-8	Groundwater	Treated Water	GW0162_20140708				µg/L	0.015		
Municipal Water Supply	PWS Sampling	PB-PWS-8	DrinkingWater	Treated Water	GW0168_20140925				µg/L	0.015		
Municipal Water Supply	Paulsboro6Month	PB-PWS-9	Groundwater	Raw Water	GW0203_20141216				µg/L	0.013 J		20
Municipal Water Supply	Paulsboro6Month	PB-PWS-9	Groundwater	Raw Water	GW0204_20141216	X			µg/L	0.013 J		
Municipal Water Supply	Paulsboro6Month	PB-PWS-9	Groundwater	Raw Water	GW0208_20150114				µg/L	0.014		
Municipal Water Supply	Paulsboro6Month	PB-PWS-9	Groundwater	Raw Water	GW0213_20150218				µg/L	0.013		
Municipal Water Supply	Paulsboro6Month	PB-PWS-9	Groundwater	Raw Water	GW0214_20150218	X			µg/L	0.014		
Municipal Water Supply	Paulsboro6Month	PB-PWS-9	Groundwater	Treated Water	GW0216_20150312				µg/L	0.010		
Municipal Water Supply	Paulsboro6Month	PB-PWS-9	Groundwater	Raw Water	GW0223_20150527				µg/L	0.011 J-		
Municipal Water Supply	PWS Sampling	PB-PWS-9	DrinkingWater	Raw Water	GW0097_20140410				µg/L	0.010		
Municipal Water Supply	PWS Sampling	PB-PWS-9	Groundwater	Raw Water	GW0164_20140708				µg/L	0.011		
Municipal Water Supply	PWS Sampling	PB-PWS-9	Groundwater	Raw Water	GW0169_20140925				µg/L	0.013		
Municipal Water Supply	PWS Sampling	Port break area sink	DrinkingWater	Drinking Water	GW0172_20140925				µg/L	0.015		
Municipal Water Supply	PWS Sampling	Red Bank tank - hydrant	DrinkingWater	Drinking Water	GW0046_20140123				µg/L	0.013		21
Municipal Water Supply	PWS Sampling	WB-PWS-7	DrinkingWater	Raw Water	GW0017				µg/L	0.050		23
Municipal Water Supply	PWS Sampling	WB-PWS-7	DrinkingWater	Treated Water	GW0018				µg/L	0.045		
Municipal Water Supply	PWS Sampling	WB-PWS-7	DrinkingWater	Raw Water	GW0070_20140206				µg/L	0.073		24
Municipal Water Supply	PWS Sampling	WB-PWS-7	DrinkingWater	Treated Water	GW0071_20140206				µg/L	0.061		
Municipal Water Supply	PWS Sampling	WB-PWS-7	DrinkingWater	Treated Water	GW0078_20140325				µg/L	0.050		
Municipal Water Supply	PWS Sampling	WB-PWS-7	DrinkingWater	Raw Water	GW0079_20140325				µg/L	0.068		
Municipal Water Supply	PWS Sampling	WB-PWS-8	DrinkingWater	Treated Water	GW0014				µg/L	0.013		
Municipal Water Supply	PWS Sampling	WB-PWS-8	DrinkingWater	Raw Water	GW0015				µg/L	0.013		

Table 1. Summary of Sample Results for PFNA between 0.01 and 0.100 parts per billion (ppb) or micrograms per liter (µg/L)

Study Investigation	Study	Location ID	Sample Matrix	Sample Type	Sample ID	Field Duplicate	Upper Depth	Lower Depth	Units	PFNA	Flag	Count of Unique Locations
Municipal Water Supply	PWS Sampling	WB-PWS-8	DrinkingWater	Raw Water	GW0016				µg/L	0.012		25
Municipal Water Supply	PWS Sampling	WB-PWS-8	DrinkingWater	Raw Water	GW0072_20140206				µg/L	0.014		
Municipal Water Supply	PWS Sampling	WB-PWS-8	DrinkingWater	Raw Water	GW0073_20140206	X			µg/L	0.015		
Municipal Water Supply	PWS Sampling	WB-PWS-8	DrinkingWater	Treated Water	GW0074_20140206				µg/L	0.062		
Municipal Water Supply	PWS Sampling	WB-PWS-8	DrinkingWater	Raw Water	GW0092_20140325				µg/L	0.015		
Municipal Water Supply	PWS Sampling	WB-PWS-8	DrinkingWater	Raw Water	GW0093_20140325	X			µg/L	0.015		
Municipal Water Supply	PWS Sampling	WB-PWS-8	DrinkingWater	Treated Water	GW0094_20140325				µg/L	0.056		
Municipal Water Supply	PWS Sampling	WB-PWS-8	DrinkingWater	Raw Water	GW0127_20140424				µg/L	0.014		
Municipal Water Supply	PWS Sampling	WB-PWS-8	DrinkingWater	Treated Water	GW0125_20140424				µg/L	0.017		
Municipal Water Supply	PWS Sampling	WB-PWS-8	DrinkingWater	Treated Water	GW0126_20140424	X			µg/L	0.017		
Municipal Water Supply	PWS Sampling	WB-PWS-8	Groundwater	Treated Water	GW0158_20140619				µg/L	0.019		
Municipal Water Supply	PWS Sampling	WB-PWS-8	Groundwater	Treated Water	GW0160_20140619	X			µg/L	0.018		
Municipal Water Supply	PWS Sampling	WB-PWS-8	DrinkingWater	Treated Water	GW0182_20141009				µg/L	0.017		
Municipal Water Supply	PWS Sampling	WB-PWS-8	DrinkingWater	Treated Water	GW0183_20141009	X			µg/L	0.016		
Municipal Water Supply	PWS Sampling	WD-PWS-3	DrinkingWater	Raw Water	GW0049				µg/L	0.038 J		
Municipal Water Supply	PWS Sampling	WD-PWS-3	DrinkingWater	Raw Water	MUA-WELL3-GW-RW				µg/L	0.038		
Municipal Water Supply	PWS Sampling	WD-PWS-3	DrinkingWater	Raw Water	GW0049_20140123				µg/L	0.036		
Municipal Water Supply	PWS Sampling	WD-PWS-3	DrinkingWater	Raw Water	GW0050_20140123	X			µg/L	0.037		
Municipal Water Supply	PWS Sampling	WD-PWS-3	DrinkingWater	Raw Water	GW0128_20140501				µg/L	0.026		
Municipal Water Supply	PWS Sampling	WD-PWS-3	Groundwater	Raw Water	GW0175_20140717				µg/L	0.030		
Municipal Water Supply	PWS Sampling	WD-PWS-3	Groundwater	Raw Water	GW0188_20141016				µg/L	0.029		
Municipal Water Supply	PWS Sampling	WD-PWS-5	DrinkingWater	Raw Water	GW0052				µg/L	0.018 U		
Municipal Water Supply	PWS Sampling	WD-Restroom sink tap	DrinkingWater	Drinking Water	GW0025				µg/L	0.013		26
Municipal Water Supply	PWS Sampling	WV-PWS-5	Groundwater	Treated Water	GW0147_20140508				µg/L	0.011		27
Municipal Water Supply	PWS Sampling	WV-PWS-5	Groundwater	Treated Water	GW0148_20140508	X			µg/L	0.011		28
Private Residence	PrivateWellSampling	RES0038.A	DrinkingWater	Raw Water	PW00039_20140528_r				µg/L	0.014		29
Private Residence	PrivateWellSampling	RES0043.A	DrinkingWater	Raw Water	PW00045_20140521_r				µg/L	0.034		30
Private Residence	PrivateWellSampling	RES0060.A	DrinkingWater	Raw Water	PW00065_20140603				µg/L	0.016		31
Private Residence	PrivateWellSampling	RES0060.A	DrinkingWater	Raw Water	PW00665_20140603_d	X			µg/L	0.016		
Private Residence	PrivateWellSampling	RES0061.A	DrinkingWater	Raw Water	PW00063_20140606_r				µg/L	0.039		32
Private Residence	PrivateWellSampling	RES0063.A	DrinkingWater	Raw Water	PW00066_20140520_r				µg/L	0.100		33
Private Residence	PrivateWellSampling	RES0097.A	DrinkingWater	Treated Water	PW00101_20140520_t				µg/L	0.037		34
Private Residence	PrivateWellSampling	RES0099.A	DrinkingWater	Raw Water	PW00103_20140709_r				µg/L	0.029		35
Private Residence	PrivateWellSampling	RES0114.A	DrinkingWater	Raw Water	PW00119_20140709_r				µg/L	0.013		36
Private Residence	PrivateWellSampling	RES0121.A	DrinkingWater	Raw Water	PW00126_20140604_r				µg/L	0.052		37
Private Residence	PrivateWellSampling	RES0122.A	DrinkingWater	Raw Water	PW00127_20140604_r				µg/L	0.050		38
Private Residence	PrivateWellSampling	RES0122.A	DrinkingWater	Raw Water	PW01127_20140604_d	X			µg/L	0.048		
Private Residence	PrivateWellSampling	RES0122.A	DrinkingWater	Treated Water	PW02127_20140604_t				µg/L	0.056		
Private Residence	PrivateWellSampling	RES0124.A	DrinkingWater	Raw Water	PW00129_20140604_r				µg/L	0.012		39
Private Residence	PrivateWellSampling	RES0124.A	DrinkingWater	Treated Water	PW01129_20140604_t				µg/L	0.016		
Private Residence	PrivateWellSampling	RES0126.A	DrinkingWater	Raw Water	PW00131_20140604_r				µg/L	0.016		40
Private Residence	PrivateWellSampling	RES0126.A	DrinkingWater	Treated Water	PW00231_20140604_t				µg/L	0.014		
Private Residence	PrivateWellSampling	RES0130.A	DrinkingWater	Raw Water	PW00135_20140617_r				µg/L	0.016		41
Private Residence	PrivateWellSampling	RES0144.A	DrinkingWater	Raw Water	PW00152_20140603_r				µg/L	0.081		42
Private Residence	PrivateWellSampling	RES0144.A	DrinkingWater	Treated Water	PW00153_20140603_t				µg/L	0.079		
Private Residence	PrivateWellSampling	RES0146.A	DrinkingWater	Raw Water	PW00201_20140605_r				µg/L	0.014		43
Private Residence	PrivateWellSampling	RES0156.A	DrinkingWater	Drinking Water	PW01156_20141205				µg/L	0.013		44
Private Residence	PrivateWellSampling	RES0161.A	Groundwater	Treated Water	PW00886_20150804				µg/L	0.028		45
Private Residence	PrivateWellSampling	RES0161.A	Groundwater	Treated Water	PW00887_20150804	X			µg/L	0.027		
Private Residence	PrivateWellSampling	RES0162.A	Groundwater	Raw Water	PW00888_20150812				µg/L	0.028		46
Private Residence	PrivateWellSampling	RES0164.A	DrinkingWater	Treated Water	PW00889_20150911				µg/L	0.028		47

Table 1. Summary of Sample Results for PFNA between 0.01 and 0.100 parts per billion (ppb) or micrograms per liter (µg/L)

Study Investigation	Study	Location ID	Sample Matrix	Sample Type	Sample ID	Field Duplicate	Upper Depth	Lower Depth	Units	PFNA	Flag	Count of Unique Locations
TWP	VertProfTempWellPt	TWP-1	Groundwater		GW1004_20140905		73	77	µg/L	0.012		48
TWP	VertProfTempWellPt	TWP-3	Groundwater		GW1019_20140917		123	127	µg/L	0.028		49
TWP	VertProfTempWellPt	TWP-3	Groundwater		GW1020_20140918		143	147	µg/L	0.015		
TWP	VertProfTempWellPt	TWP-3	Groundwater		GW1021_20140922		163	167	µg/L	0.049		
TWP	VertProfTempWellPt	TWP-3	Groundwater		GW1022_20140923		183	187	µg/L	0.042		
TWP	VertProfTempWellPt	TWP-4	Groundwater		GW1024_20140925		83	87	µg/L	0.033		50
TWP	VertProfTempWellPt	TWP-4	Groundwater		GW1027_20140929		143	147	µg/L	0.032		
TWP	VertProfTempWellPt	TB-77	Groundwater		GW1060_20150924		92	97	µg/L	0.034		51
TWP	VertProfTempWellPt	TB-81	Groundwater		GW1049_20150818		81	86	µg/L	0.030 U		52

Notes:

J = the associated numerical value is an estimated quantity

J+ = the associated numerical value is an estimated quantity with the possibility of a high bias

J- = the associated numerical value is an estimated quantity with the possibility of a low bias

U = the chemical was analyzed for, but was not detected. The associated numerical value is the sample method reporting limit.

Table 2. Summary of Sample Results for PFNA greater than 0.100 parts per billion (ppb) or micrograms per liter (µg/L)

Study Investigation	Study	Location ID	Sample Matrix	Sample Type	Sample ID	Field Duplicate	Upper Depth	Lower Depth	Units	PFNA	Flag	Count of Unique Locations
Monitoring Wells	OnsiteOffsiteSampling	M/H-1D	Groundwater		GW0001_20140313				µg/L	2.46 D		1
Monitoring Wells	OnsiteOffsiteSampling	M/H-2D	Groundwater		GW0002_20140311				µg/L	482 J		2
Monitoring Wells	OnsiteOffsiteSampling	M/H-4	Groundwater		GW0003_20140314				µg/L	10.3 B D		3
Monitoring Wells	OnsiteOffsiteSampling	M/H-4D	Groundwater		GW0004_20140313				µg/L	12.6 B D		4
Monitoring Wells	OnsiteOffsiteSampling	M/H-6D	Groundwater		GW0005_20140314				µg/L	0.83 B		5
Monitoring Wells	OnsiteOffsiteSampling	M/H-7D	Groundwater		GW0006_20140311				µg/L	7.25 D		6
Monitoring Wells	OnsiteOffsiteSampling	MW-1	Groundwater		GW0007_20140312				µg/L	11.3 D		7
Monitoring Wells	OnsiteOffsiteSampling	MW-10I	Groundwater		GW0009_20140313				µg/L	123 D		8
Monitoring Wells	OnsiteOffsiteSampling	MW-10S	Groundwater		GW0010_20140313				µg/L	3.54 D		9
Monitoring Wells	OnsiteOffsiteSampling	MW-11D	Groundwater		GW0012_20140312				µg/L	4.33 D		10
Monitoring Wells	OnsiteOffsiteSampling	MW-11DD	Groundwater		GW0013_20140312				µg/L	1.38		11
Monitoring Wells	OnsiteOffsiteSampling	MW-15S	Groundwater		GW0014_20140313				µg/L	4.77 D		12
Monitoring Wells	OnsiteOffsiteSampling	MW-17S	Groundwater		GW0015_20140313				µg/L	4.53 D		13
Monitoring Wells	OnsiteOffsiteSampling	MW-18D	Groundwater		GW0034_20140321				µg/L	1.01		14
Monitoring Wells	OnsiteOffsiteSampling	MW-18I	Groundwater		GW0035_20140321				µg/L	18		15
Monitoring Wells	OnsiteOffsiteSampling	MW-18S	Groundwater		GW0036_20140321				µg/L	3.11		16
Monitoring Wells	OnsiteOffsiteSampling	MW-19D	Groundwater		GW0037_20140321				µg/L	17		17
Monitoring Wells	OnsiteOffsiteSampling	MW-19I	Groundwater		GW0038_20140321				µg/L	26.8		18
Monitoring Wells	OnsiteOffsiteSampling	MW-19S	Groundwater		GW0039_20140321				µg/L	3.1		19
Monitoring Wells	OnsiteOffsiteSampling	MW-1D	Groundwater		GW0008_20140312				µg/L	16.5 D		20
Monitoring Wells	OnsiteOffsiteSampling	MW-24D	Groundwater		GW0016_20140313				µg/L	1.83		21
Monitoring Wells	OnsiteOffsiteSampling	MW-24I	Groundwater		GW0017_20140313				µg/L	1.63 J		22
Monitoring Wells	OnsiteOffsiteSampling	MW-25D	Groundwater		GW0044_20140320				µg/L	1.78 U		23
Monitoring Wells	OnsiteOffsiteSampling	MW-25IL	Groundwater		GW0043_20140320				µg/L	8.38 U		24
Monitoring Wells	OnsiteOffsiteSampling	MW-25IU	Groundwater		GW0041_20140320				µg/L	11.6 U		25
Monitoring Wells	OnsiteOffsiteSampling	MW-25IU	Groundwater		GW0042_20140320	X			µg/L	12.8 U		
Monitoring Wells	OnsiteOffsiteSampling	MW-25S	Groundwater		GW0040_20140320				µg/L	1.63 U		26
Monitoring Wells	OnsiteOffsiteSampling	MW-26D	Groundwater		GW0048_20140318				µg/L	1.04		27
Monitoring Wells	OnsiteOffsiteSampling	MW-26IL	Groundwater		GW0047_20140312				µg/L	7.03 D		28
Monitoring Wells	OnsiteOffsiteSampling	MW-26IU	Groundwater		GW0046_20140318				µg/L	6.56 D		29
Monitoring Wells	OnsiteOffsiteSampling	MW-26S	Groundwater		GW0045_20140312				µg/L	1.7		30
Monitoring Wells	OnsiteOffsiteSampling	MW-27IU	Groundwater		GW0050_20140317				µg/L	8.99 B D		31
Monitoring Wells	OnsiteOffsiteSampling	MW-27S	Groundwater		GW0049_20140317				µg/L	15.2 B D		32
Monitoring Wells	OnsiteOffsiteSampling	MW-28IL	Groundwater		GW0007_20140417				µg/L	24.6		33
Monitoring Wells	OnsiteOffsiteSampling	MW-28IL	Groundwater		GW0008_20140417	X			µg/L	24.2		
Monitoring Wells	OnsiteOffsiteSampling	MW-28S	Groundwater		GW0051_20140317				µg/L	6.12 B D		34
Monitoring Wells	OnsiteOffsiteSampling	MW-29IU	Groundwater		GW0054_20140317				µg/L	9.81 B D		35
Monitoring Wells	OnsiteOffsiteSampling	MW-29S	Groundwater		GW0009_20140417				µg/L	1.37 J		36
Monitoring Wells	OnsiteOffsiteSampling	MW-30D	Groundwater		GW0058_20140318				µg/L	0.87		37
Monitoring Wells	OnsiteOffsiteSampling	MW-30IL	Groundwater		GW0057_20140318				µg/L	11.7 D		38
Monitoring Wells	OnsiteOffsiteSampling	MW-30IU	Groundwater		GW0056_20140318				µg/L	9.89 D		39
Monitoring Wells	OnsiteOffsiteSampling	MW-30S	Groundwater		GW0055_20140318				µg/L	0.39		40
Monitoring Wells	OnsiteOffsiteSampling	MW-31IU	Groundwater		GW0060_20140318				µg/L	2.61 B D		41
Monitoring Wells	OnsiteOffsiteSampling	MW-31S	Groundwater		GW0059_20140318				µg/L	1.1 B		42
Monitoring Wells	OnsiteOffsiteSampling	MW-32IU	Groundwater		GW0062_20140320				µg/L	3.88 U		43
Monitoring Wells	OnsiteOffsiteSampling	MW-32IU	Groundwater		GW0063_20140320	X			µg/L	3.83 U		
Monitoring Wells	OnsiteOffsiteSampling	MW-32S	Groundwater		GW0061_20140320				µg/L	3.73 U		44
Monitoring Wells	OnsiteOffsiteSampling	MW-33S	Groundwater		GW0010_20140417				µg/L	2.49		45
Monitoring Wells	OnsiteOffsiteSampling	MW-34D	Groundwater		GW0012_20140417				µg/L	5		46
Monitoring Wells	OnsiteOffsiteSampling	MW-34I	Groundwater		GW0011_20140417				µg/L	4.32		47
Monitoring Wells	OnsiteOffsiteSampling	MW-35D	Groundwater		GW0014_20140417				µg/L	4.52		48
Monitoring Wells	OnsiteOffsiteSampling	MW-35I	Groundwater		GW0013_20140417				µg/L	9.87		49

Table 2. Summary of Sample Results for PFNA greater than 0.100 parts per billion (ppb) or micrograms per liter (µg/L)

Study Investigation	Study	Location ID	Sample Matrix	Sample Type	Sample ID	Field Duplicate	Upper Depth	Lower Depth	Units	PFNA	Flag	Count of Unique Locations
Monitoring Wells	OnsiteOffsiteSampling	MW-36D	Groundwater		GW0015_20140417				µg/L	2.68		50
Monitoring Wells	OnsiteOffsiteSampling	MW-3D	Groundwater		GW0018_20140312				µg/L	0.18		51
Monitoring Wells	OnsiteOffsiteSampling	MW-5D	Groundwater		GW0019_20140311				µg/L	2.97 D		52
Monitoring Wells	OnsiteOffsiteSampling	MW-5DD	Groundwater		GW0020_20140311				µg/L	2.73 D		53
Monitoring Wells	OnsiteOffsiteSampling	MW-5DD	Groundwater		GW0021_20140311	X			µg/L	1.95		
Monitoring Wells	OnsiteOffsiteSampling	MW-5I	Groundwater		GW0022_20140311				µg/L	3.4 D		54
Monitoring Wells	OnsiteOffsiteSampling	MW-6I	Groundwater		GW0024_20140312				µg/L	25.8 D		55
Monitoring Wells	OnsiteOffsiteSampling	MW-6S	Groundwater		GW0025_20140312				µg/L	5.18 D		56
Monitoring Wells	OnsiteOffsiteSampling	P-2S	Groundwater		GW0026_20140313				µg/L	1.8		57
Monitoring Wells	OnsiteOffsiteSampling	P-5S	Groundwater		GW0027_20140313				µg/L	60 B D		58
Monitoring Wells	OnsiteOffsiteSampling	P-6S	Groundwater		GW0028_20140314				µg/L	30.4 B D		59
Monitoring Wells	OnsiteOffsiteSampling	PZ-3I	Groundwater		GW0005_20140418				µg/L	0.24		60
Monitoring Wells	OnsiteOffsiteSampling	PZ-3S	Groundwater		GW0006_20140418				µg/L	1.18		61
Monitoring Wells	OnsiteOffsiteSampling	PZ-5	Groundwater		GW0001_20140418				µg/L	0.23		62
Monitoring Wells	OnsiteOffsiteSampling	PZ-5	Groundwater		GW0002_20140418	X			µg/L	0.27		
Monitoring Wells	OnsiteOffsiteSampling	PZ-6	Groundwater		GW0003_20140418				µg/L	0.18		63
Monitoring Wells	OnsiteOffsiteSampling	WCC-1	Groundwater		GW0029_20140313				µg/L	1.68 B		64
Monitoring Wells	OnsiteOffsiteSampling	WCC-2	Groundwater		GW0030_20140311				µg/L	11 D		65
Monitoring Wells	OnsiteOffsiteSampling	WCC-3	Groundwater		GW0031_20140313				µg/L	25.9 D		66
Monitoring Wells	OnsiteOffsiteSampling	WCC-5	Groundwater		GW0032_20140313				µg/L	14.1 B D		67
Monitoring Wells	OnsiteOffsiteSampling	WCC-7	Groundwater		GW0033_20140311				µg/L	6.24 D		68
Municipal Water Supply	PB-GAC-ACT	PB-PWS-7	MidTreatmentWater	MidTreatment Water	GW0209_20150129				µg/L	0.14		69
Municipal Water Supply	PB-GAC-ACT	PB-PWS-7	MidTreatmentWater	MidTreatment Water	GW0210_20150129	X			µg/L	0.15		
Municipal Water Supply	PB-GAC-ACT	PB-PWS-7	MidTreatmentWater	PreGAC	FeedSample1_20150203				µg/L	0.15		
Municipal Water Supply	PB-GAC-ACT	PB-PWS-7	MidTreatmentWater	PreGAC	FeedSample2_20150210				µg/L	0.14		
Municipal Water Supply	PB-GAC-ACT	PB-PWS-7	MidTreatmentWater	PreGAC	FeedSample3_20150227				µg/L	0.12		
Municipal Water Supply	PWS Sampling	PB-PWS-7	DrinkingWater	Treated Water	GW0006				µg/L	0.11		
Municipal Water Supply	PWS Sampling	PB-PWS-7	Groundwater	Raw Water	GW0161_20140708				µg/L	0.14		
Municipal Water Supply	PWS Sampling	PB-PWS-7	Groundwater	Raw Water	GW0163_20140708	X			µg/L	0.14		
Municipal Water Supply	PWS Sampling	PB-PWS-7	Groundwater	Raw Water	GW0167_20140925				µg/L	0.15		
Municipal Water Supply	PWS Sampling	PB-PWS-7	Groundwater	Raw Water	GW0170_20140925	X			µg/L	0.14		
Municipal Water Supply	PWS Sampling	WB-PWS-7	Groundwater	Raw Water	GW0157_20140619				µg/L	0.12		70
Municipal Water Supply	PWS Sampling	WB-PWS-7	Groundwater	Raw Water	GW0181_20141009				µg/L	0.12		
Municipal Water Supply	PWS Sampling	WD-PWS-3	DrinkingWater	Raw Water	GW0050				µg/L	0.52 J		71
Private Residence	PrivateWellSampling	RES0050.B	DrinkingWater	Raw Water	PW00352_20140520				µg/L	0.18		72
Private Residence	PrivateWellSampling	RES0095.A	DrinkingWater	Raw Water	PW00099_20140520_r				µg/L	1.5		73
Private Residence	PrivateWellSampling	RES0096.A	DrinkingWater	Raw Water	PW00100_20140520_r				µg/L	0.64		74
Private Residence	PrivateWellSampling	RES0097.A	DrinkingWater	Raw Water	PW00301_20140520_r				µg/L	0.23		75
Private Residence	PrivateWellSampling	RES0103.A	DrinkingWater	Raw Water	PW00108_20140617_r				µg/L	0.65		76
Private Residence	PrivateWellSampling	RES0117.A	DrinkingWater	Raw Water	PW00122_20140605_r				µg/L	0.14		77
Private Residence	PrivateWellSampling	RES0118.A	DrinkingWater	Raw Water	PW00123_20140605_r				µg/L	0.12		78
Private Residence	PrivateWellSampling	RES0160.A	Groundwater	Raw Water	PW00160_20140717				µg/L	0.19		79
TWP	VertProfTempWellPt	MW-41D	Groundwater		GW1053_20150826			32	37	µg/L	0.401	80
TWP	VertProfTempWellPt	MW-41D	Groundwater		GW1054_20150827			82	87	µg/L	1.11	
TWP	VertProfTempWellPt	MW-41D	Groundwater		GW1055_20150831			117	122	µg/L	0.412	
TWP	VertProfTempWellPt	MW-41D	Groundwater		GW1056_20150903			132	137	µg/L	0.649	
TWP	VertProfTempWellPt	TB-77	Groundwater		GW1061_20150924			122	127	µg/L	0.187	81
TWP	VertProfTempWellPt	TB-77	Groundwater		GW1062_20150929			180	185	µg/L	0.336	
TWP	VertProfTempWellPt	TB-77	Groundwater		GW1063_20150930			212	217	µg/L	0.155	
TWP	VertProfTempWellPt	TB-78	Groundwater		GW1057_20150914			132	137	µg/L	0.340	82
TWP	VertProfTempWellPt	TB-78	Groundwater		GW1058_20150916			180	185	µg/L	0.449	
TWP	VertProfTempWellPt	TB-78	Groundwater		GW1059_20150921			247	252	µg/L	0.203	

Table 2. Summary of Sample Results for PFNA greater than 0.100 parts per billion (ppb) or micrograms per liter (µg/L)

Study Investigation	Study	Location ID	Sample Matrix	Sample Type	Sample ID	Field Duplicate	Upper Depth	Lower Depth	Units	PFNA	Flag	Count of Unique Locations
TWP	VertProfTempWellPt	TB-81	Groundwater		GW1050_20150819		122	127	µg/L	2.07		83
TWP	VertProfTempWellPt	TB-81	Groundwater		GW1051_20150820		142	147	µg/L	1.53		
TWP	VertProfTempWellPt	TWP-2	Groundwater		GW1010_20140910		83	87	µg/L	0.292		84
TWP	VertProfTempWellPt	TWP-2	Groundwater		GW1011_20140911		103	107	µg/L	0.318		
TWP	VertProfTempWellPt	TWP-2	Groundwater		GW1012_20140911		123	127	µg/L	0.336		
TWP	VertProfTempWellPt	TWP-2	Groundwater		GW1013_20140912		141	145	µg/L	0.209		
TWP	VertProfTempWellPt	TWP-4	Groundwater		GW1025_20140926		103	107	µg/L	0.117		85
TWP	VertProfTempWellPt	TWP-4	Groundwater		GW1026_20140926		123	127	µg/L	0.114		

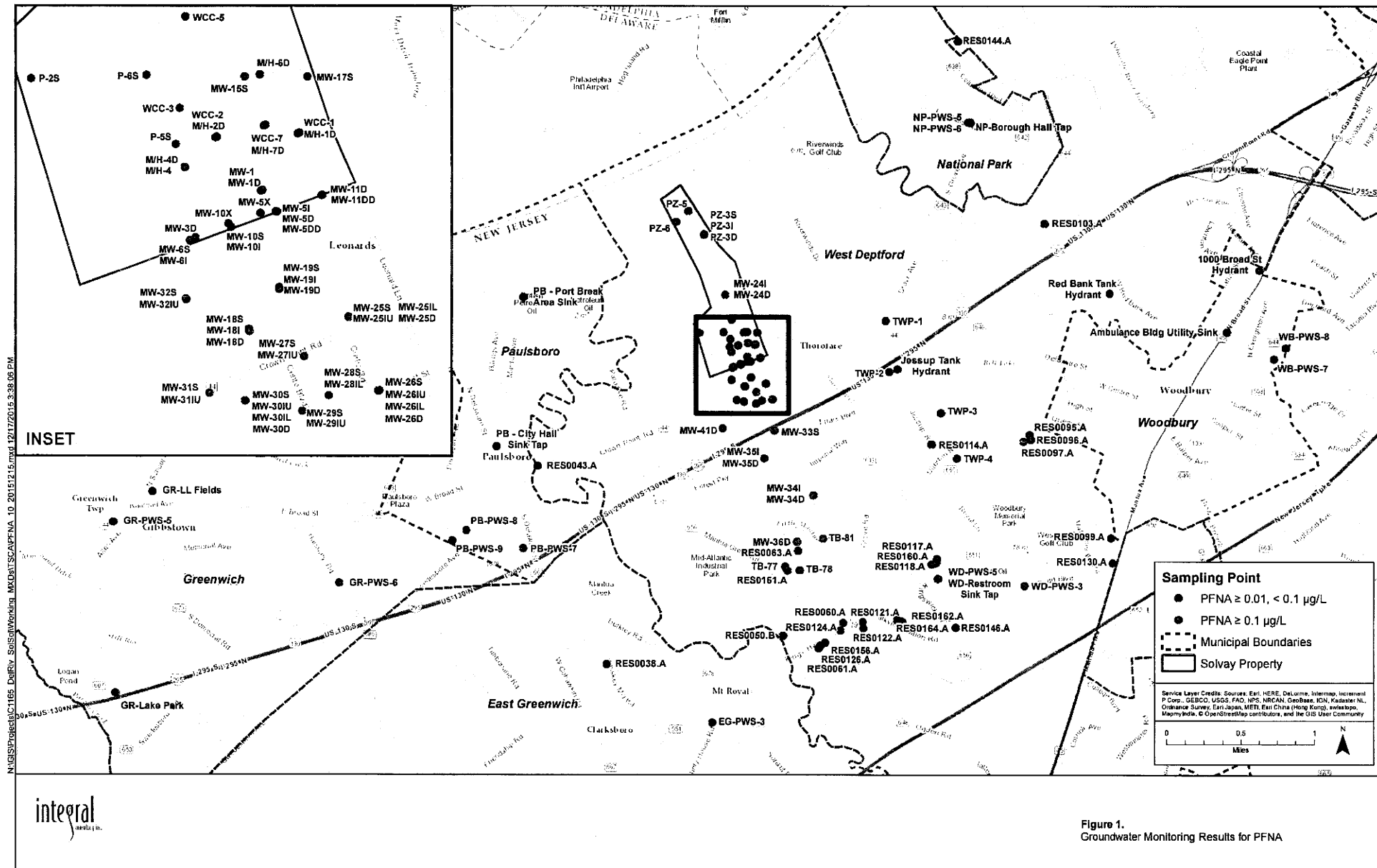
Notes:

B = the associated numerical value is qualified based on measured concentrations in the blank sample

D = the concentration was measured following the application of a dilution

J = the associated numerical value is an estimated quantity

U = the chemical was analyzed for, but was not detected. The associated numerical value is the sample method reporting limit.



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ORIGIN ID:ZRPA (809) 860-3606
 PAUL LINSKEY
 SOLVAY USA INC.
 8 CEDAR BROOK DRIVE

CRANBURY, NJ 08512
 UNITED STATES US

SHIP DATE: 22DEC15
 ACTWGT: 1.00 LB
 CAD: 3519389/NET3670

BILL SENDER

TO **TSCA CONFID. BUS. INFO. CTR 7407M**
U. S. ENVIRON. PROT. AGENCY
1201 CONSTITUTION AVE. NW
WJC EAST - ROOM 6428; SECTION 8(E)
WASHINGTON DC 20004

(202) 564-4700

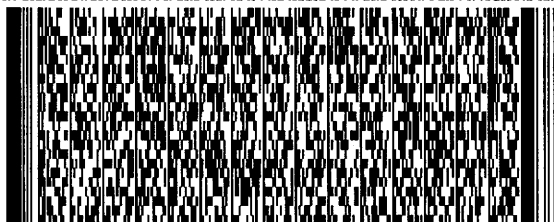
INV.

PO:

REF:

DEPT:

539,117,308,8100



FedEx
Express



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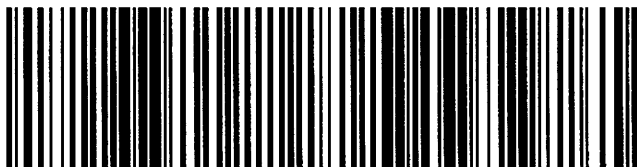
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After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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